

L2 ANSWER 10 OF 21 WPIDS COPYRIGHT 2001 DERWENT INFORMATION LTD

AN 1988-181640 (26) WPIDS

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TI Method and appts. to conduct heat and mass transfer process - involves admitting most of the gas continuously and rest with pulsation, to increase mixing.

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PA (ASME-R) AS USSR MECH PROBL

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Gas bubbles are passed through a liq. alyer to allow heat and mass transfer to take place. Continuous ***bubbling*** takes place in the region of the appts., the surface of which is symmetrical to the projection of a straight line relative to the bottom, passing through pipes for admitting and removing liq. reagent. ***Bubbling*** is also done intermittently, ratio between duration of ***pulsed*** feed and holding time = 3-5; holding time = 2-10 secs. There are inlet/outlet pipes for gases/liqs., with central and peripheral bubblers.

USE/ADVANTAGE - For carrying out physico-chemical processes in heterogeneous gas/liq. systems. Process effectiveness is increased as a result of the increased velocity of the heat-and mass-transfer due to more efficient mixing.

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